

## 2-Pentanephosphonic acid

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See *Phosphonic acid*, (1-methylbutyl)- [4730-69-2]

## 3-Pentanephosphonic acid

See *Phosphonic acid*, (1-ethylpropyl)- [6874-65-3]

## 1-Pentanephosphonyl chloride

See *Phosphonic dichloride*, pentyl- [926-46-5]

## 1-Pentanesulfonic acid

## —, 4-hydroxy-

 $\delta$ -sultone — see 1,2-Oxathiane, 6-methyl-, 2,2-dioxide [4362-71-4]

## 2-Pentanesulfonic acid

## —, 4-hydroxy-

 $\gamma$ -sultone — see 1,2-Oxathiolane, 3,5-dimethyl-, 2,2-dioxide [4379-02-6]

## 1-Pentanethiol [110-66-7]

In the absence of a function higher than thiol, 1-pentanethiol derivatives attached directly to ring systems by single bonds are indexed at conjunctive names; e.g., *Benzenepentanethiol*; 2-*Quinolonepropanethiol*,  $\gamma$ -ethyl-

Specific esters of acids with 1-pentanethiol are indexed under the names of the acids only; metal salts and general studies of esters of 1-pentanethiol are indexed at this heading

## 1,1,2-Pentanetricarboxylic acid

## —, 3-hydroxy-

 $\gamma$ -lactone — see 3,4-Furandicarboxylic acid, 2-ethyltetrahydro-5-oxo- [27804-42-8]

## 2,2,3-Pentanetricarboxylic acid

## —, 1-(1,3-benzodioxol-5-yl)-4-hydroxy-4-methyl-

 $\gamma$ -lactone — see 3,4-Furandicarboxylic acid, 4-[(1,3-benzodioxol-5-yl)methyl]tetrahydro-2,2-dimethyl-5-oxo- [27804-43-9]

## —, 4-hydroxy-4-methyl-1-phenyl-

 $\gamma$ -lactone — see 3,4-Furandicarboxylic acid, tetrahydro-2,2-dimethyl-5-oxo-4-(phenylmethyl)- [27804-44-0]

## 2,3,4-Pentanetrione

## 3-(cyclic 2,3-quinoxalinediyl mercaptol)-

see *Ethanone*, 1,1'-(1,3-dithiol[4,5-b]quinoxalin-2-ylidene)bis- [5760-24-7]

## Pentanex

See *Nitric acid ammonium salt*, compounds, mixt. with 2,2-bis(nitrooxy)methyl-1,3-propanediyl dinitrate [67713-17-1]

## Pentanimidic acid

## —, 4-hydroxy-

 $\gamma$ -lactone — see 2(3H)-Furanimine, dihydro-5-methyl- [4412-83-3]

## —, 5-hydroxy-

 $\delta$ -lactone — see 2H-Pyran-2-imine, tetrahydro- [4703-82-6]

## Pentanitol

See 1,3-Propanediol, 2,2-bis(nitrooxy)methyl-, dinitrate (ester) [78-11-5]

## Pentanochlor

See *Pentanamide*, N-(3-chloro-4-methylphenyl)-2-methyl- [2307-68-8]

## 2,8-(Pentanodiiimino)dibenzofuran

See 2,8-(Iminopentanoimino)dibenzofuran [242-76-2]

## Pentanoic acid [109-52-4]

In the absence of a function higher than carboxylic acid, when one or more pentanoic acid residues are directly attached by single bonds to any ring system, including benzene, the compound is indexed at a conjunctive name based on the ring, e.g., 1(2H)-*Quinolonepropanoic acid*,  $\beta$ -ethyl-, as described in more detail by the note at *Acetic acid*

## —, 2-amino-

(S)- — see L-Norvaline [6600-40-4]

## —, 5-amino-

lactam — see 2-Piperidinone [675-20-7]

## —, 4-amino-5-[(3-amino-1-carboxy-3-oxopropyl)amino]-5-oxo-

See *Asparagine*,  $\alpha$ -glutamyl- [4432-54-6]

## —, 2-amino-5-[(aminomino)methyl]amino-

(S)- — see L-Arginine [74-79-3]

## —, 4-amino-5-[(1-carboxy-2-(4-hydroxyphenyl)ethyl)amino]-5-oxo-

See *Tyrosine*,  $\alpha$ -glutamyl- [6720-08-7]

## —, 4-amino-5-[(1-carboxy-2-(1H-imidazol-4-yl)ethyl)amino]-5-oxo-

[S-(R\*,R\*)]- — see L-Histidine, L- $\alpha$ -glutamyl- [21435-29-0]

## —, 2-amino-3-methyl-

[S-(R\*,R\*)]- — see L-Isoleucine [73-32-5]

## —, 2-amino-4-methyl-

[S-(R\*,S\*)]- — see L-Alloisoleucine [1509-34-8]

## —, 2-amino-4-methyl-

(S)- — see L-Leucine [61-90-5]

—, 4-[(17 $\beta$ )-androstane-17-yl]-See *Cholan-24-oic acid* [25312-65-6]

## —, 3-carboxy-4-oxo-

See *Butanedioic acid*, acetyl- [5663-85-0]

## —, 2,5-diamino-

(S)- — see L-Ornithine [70-26-8]

## —, 2,5-diamino-5-oxo-

(S)- — see L-Glutamine [56-85-9]

## —, 4,4-dichloro-3,5-dihydroxy-

cyclic methyl phosphate — see 1,3,2-Dioxaphosphorinane-4-acetic acid, 5,5-dichloro-2-methoxy-, 2-oxide [6169-99-9]

## —, 5,5-dicyclohexyl-

See *Cyclohexanepentanoic acid*,  $\delta$ -cyclohexyl- [6706-50-9]

## —, 4-hydroxy-

 $\gamma$ -lactone — see 2(3H)-Furanone, dihydro-5-methyl- [108-29-2]

## —, 5-hydroxy-

 $\delta$ -lactone — see 2H-Pyran-2-one, tetrahydro- [542-28-9]

## —, 3-(hydroxymethyl)-

 $\gamma$ -lactone — see 2(3H)-Furanone, 4-ethyl-dihydro- [16496-51-8]

## —, N-[4-[[N-[N-[N-[N-[N-(L-erythro-2-hydroxy-3-methyl-1-oxopentyl)glycyl]-N-methyl-L-leucyl]glycyl]-N-methyl-L-valyl]-N,O-dimethyl-L-tyrosyl]amino]-2,2-dimethyl-1,3-dioxopentyl]-L-alanyl-2-methyl-3-amino-

 $\delta$ -lactone — for specific stereoisomers see suchheadings as *Dolastatin 11* [111517-68-1]

—, N-[4-[[N-[N-[N-[N-(L-erythro-2-hydroxy-3-methyl-1-oxopentyl)glycyl]-N-methyl-L-leucyl]glycyl]-N-methyl-L-valyl]-N-methyl-L-phenylalanyl]amino]-2,2-dimethyl-1,3-dioxopentyl]-N-methyl-L-alanyl-2-methyl-3-amino-

 $\delta$ -lactone — for specific stereoisomers see suchheadings as *Dolastatin 12* [122054-77-7]

## —, 4-mercapto-

 $\gamma$ -(thio lactone) —

see 2(3H)-Thiophenone, dihydro-5-methyl- [5650-74-8]

## —, 5-mercapto-

 $\delta$ -(thio lactone) —

see 2H-Thiopyran-2-one, tetrahydro- [1003-42-5]

## —, 4-oxo-

cyclic 1,2-ethanediyl acetal —

see 1,3-Dioxolane-2-propanoic acid, 2-methyl- [4388-57-2]

## —, 3-phenyl-

See *Benzenepropanoic acid*,  $\beta$ -ethyl- [5669-17-0]

## —, 2-(2-propenyl)-

See 4-Pentenoic acid, 2-propyl- [1575-72-0]

## Pentanol [30899-19-5]

"Synthetic amyl alcohol" and unspecified pentyl alcohol mixtures are indexed here; "fermentation amyl alcohol" (fusel oil) is indexed at *Fusel oil*, and active primary amyl alcohol at 1-*Butanol*, 2-methyl-. Studies in which a component of the mixture is emphasized are indexed at the name of the component; thus, isoamyl alcohol is indexed at 1-*Butanol*, 3-methyl-. Esters of the mixture with specific acids are indexed at the acid names; e.g., *Butanoic acid*, pentyl ester, isomers

## sec-Pentanol

See also

2-Pentanol [6032-29-7]

3-Pentanol [584-02-1]

## 1-Pentanol [71-41-0]

Specific esters of 1-pentanol are indexed at the acid names only; studies of its metal salts and of its esters as a class are indexed at this heading. See also the note at *Pentanol*1-Pentanol derivatives in which a cyclic parent is directly attached to the carbon chain by a single bond are indexed at conjunctive names derived from the cyclic parent; e.g., *Benzenepentanol*; 1-*Naphthalenebutanol*,  $\delta$ -methyl-; 9H-*Purine-9-methanol*,  $\alpha$ -butyl-, as described in more detail by the notes at *Ethanol* and *Methanol*

## —, 1-cyclobutyl-

See *Cyclobutanemethanol*,  $\alpha$ -butyl- [23778-48-5]

## —, 1-cyclopropyl-

See *Cyclopropanemethanol*,  $\alpha$ -butyl- [4379-16-2]

## —, 1-phenyl-

See *Benzenemethanol*,  $\alpha$ -butyl- [583-03-9]

## 2-Pentanol

—, 4-methyl-2-phenyl-

See *Benzenemethanol*,  $\alpha$ -methyl- $\alpha$ -(2-methyl-propyl)- [4423-54-5]

## —, 2-phenyl-

See *Benzenemethanol*,  $\alpha$ -methyl- $\alpha$ -propyl- [4383-18-0]

## 3-Pentanol

—, 3-cyclopropyl-

See *Cyclopropanemethanol*,  $\alpha,\alpha$ -diethyl- [4364-55-0]

## —, 1,2-epoxy-3-methyl-2-(1-pentynyl)-

See *Oxiranemethanol*,  $\alpha$ -ethyl- $\alpha$ -methyl-2-(1-pentynyl)- [5818-52-0]

## —, 3-ethynyl-

See 1-Pentyn-3-ol, 3-ethyl- [6285-06-9]

## —, 3-phenyl-

See *Benzenemethanol*,  $\alpha,\alpha$ -diethyl- [1565-71-5]

## 2-Pentanone

cyclic 1,2-ethanediyl acetal —

see 1,3-Dioxolane, 2-methyl-2-propyl- [4352-98-1]

cyclic 1-(hydroxymethyl)-1,2-ethanediyl acetal — see 1,3-Dioxolane-4-methanol, 2-methyl-2-propyl- [4361-61-9]

## —, 3-(chloromercurio)-

See *Mercury*, chloro(1-ethyl-2-oxopropyl)- [28638-87-1]

## —, 5-[2-[2-[2-(2-ethoxyethoxy)ethoxy]-ethoxy]ethoxy]ethoxy]-

See 3,6,9,12,15,18-Hexaoxatricosan-22-one [4440-58-8]

## —, 4-methyl-

cyclic 1,2-ethanediyl mercaptol —

see 1,3-Dithiolane, 2-methyl-2-(2-methyl-propyl)- [6008-87-3]

## 3-Pentanone [96-22-0]

Acyclic acetals of 3-pentanone are indexed like other ethers (see notes at *Acetals*, *Ethers*). Cyclic acetals are indexed at the ring names. Examples: *Pentane*, 3,3-diethoxy-; 1,3-Dioxolane, 2,2-diethyl-

(aminomino)methylhydrazone —

see *Hydrazinecarboximidamide*, 2-(1-ethyl-propylidene)- [4353-48-4]

cyclic 1,2-ethanediyl acetal —

see 1,3-Dioxolane, 2,2-diethyl- [4362-57-6]

cyclic 1-methyl-1,2-ethanediyl acetal —

see 1,3-Dioxolane, 2,2-diethyl-4-methyl- [4362-58-7]

## —, 1-benzoyl-

See 1,4-Hexanedione, 1-phenyl- [4437-46-1]

## —, 2,4-dimethyl-

cyclic 1-(hydroxymethyl)-1,2-ethanediyl acetal — see 1,3-Dioxolane-4-methanol, 2,2-bis-(1-methylethyl)- [470-43-9]

## Pentanot 25

See *Phenol*, pentachloro-, sodium salt [131-52-2]

## Pentanoyl chloride [638-29-9]

See *Pentanoic acid* headings for many nomenclature cross-references that will also be useful when

searching for pentanoyl chloride derivatives

## Pentanoyl coenzyme A

See *Coenzyme A*, esters, S-pentanoate [4752-33-4]

## Pentao

See *Oleanane*-3,13,16,23,28-pentol, 2,24-epoxy-, (2 $\beta$ ,3 $\beta$ ,4 $\beta$ ,16 $\alpha$ )- [60771-06-4]

## 3,5,7,9,11-Pentaoxa-14-aza-2,4,6,8,10,12-hexasilahexadecane

See *Ethanamine*, N-[(11-methylhexasiloxanyl)-methyl]- [23778-49-6]

## 1,3,5,7,9-Pentaoxacyclopent[1]indeno[5,6-a]-anthracene

See 1,3-Dioxolo[6,7][1]benzopyrano[3,4-b]furo[3,2-g]-[1]benzopyran [222-89-9]

## 1,3,5,7,9-Pentaoxa-2,4,6,8,10-pentasilacyclodecane

See *Cyclopentasiloxane* [294-40-6]

## 3,5,7,12,16-Pentaoxa-2,4,6,8-tetrasilheptadecan-14-ol

See 2-*Propanol*, 1-methoxy-3-[3-(7-methyltetrasiloxanyl)propoxy]- [26241-21-4]2,3,5,7,8-Pentaoxatricyclo[4.2.2.0<sup>4,9</sup>]decane

See 3,5-Epoxy-3H-1,2-dioxolo[3,4-c][1,2]dioxin, tetrahydro- [31296-20-5]

## Pentapharm PH 17001

See *Ethene*, chloro-, polymers, homopolymer [9002-86-2]

## Pentaphen (pharmaceutical)

See *Cyclopentanecarboxylic acid*, 1-phenyl-, 2-(diethylamino)ethyl ester [77-22-5]

## Pentaphenafulvalene

See 1H-*Phenylene*, 1-(2,4-cyclopentadien-1-ylidene)- [27949-50-4]

## Penta-m-phenylene

See *Hexacyclo*[20.3.1.12.6.17.11.12.16.17.21]triacenta-1(26),2,4,6(30),7,9,11(29),12,14,16(28),17,19,21(27),22,24-pentadecaene [15004-47-4]

## Pentaphos

See *Ethanethiol*, 2-[(5-aminopentyl)amino]-, dihydrogen phosphate (ester) [20724-76-9]

## Pentaphosphamagnesane

See *Magnesium*, 1,5-pentaphosphinediyl- [27581-86-8]

## 1H-Pentaphosphamagnesium

See *Magnesium*, 1,3-pentaphosphadiene-1,5-diyl- [21880-32-0]

## 1,3,5,7,9-Pentaphospha-2,4,6,8,10-pentaborabicyclo[4.4.0]decane

See [1,3,5,2,4,6]Triphosphatriborino[1,2-a][1,3,5,2,4,6]triphosphatriborin, octahydro- [253-19-0]

## Pentaphosphine [27713-30-0]

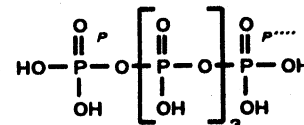


## Pentaphosphole

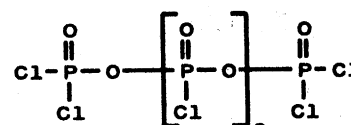
## —, tetrahydro-

See *Pentaphospholane* [6798-45-4]

## Pentaphosphoric acid [12395-97-0]



## Pentaphosphoryl chloride [51472-35-6]



## Pentaphyrin

See 26,27,28,29,30-Pentaazahexacyclo[21.2.1.13.6.18.11.13.16.18.21]triacenta-1,3,5,7,9,11(29),12,14,16(28),17,19,21,23(26),24-tetradecaene [144728-67-6]

## Pentapiperide

See *Benzenecarboxylic acid*,  $\alpha$ -(1-methylpropyl)-, 1-methyl-4-piperidinyl ester [7009-54-3]

## Pentapiperide methylsulfate

See *Piperidinium*, 1,1-dimethyl-4-[(3-methyl-1-oxo-2-phenylpentyl)oxy]-, methyl sulfate [7681-80-3]

## Pentapiperium

See *Piperidinium*, 1,1-dimethyl-4-[(3-methyl-1-oxo-2-phenylpentyl)oxy]- [26372-86-1]

## Pentapiperium methylsulfate

See *Piperidinium*, 1,1-dimethyl-4-[(3-methyl-1-oxo-2-phenylpentyl)oxy]-, methyl sulfate [7681-80-3]

## Pentaplast

See *Poly(oxy[2,2-bis(chloromethyl)-1,3-propanediyl])* [26917-50-0]

## Pentaplast A

See *Poly(oxy[2,2-bis(chloromethyl)-1,3-propanediyl])* [26917-50-0]Pentaplast A<sub>2</sub>See *Poly(oxy[2,2-bis(chloromethyl)-1,3-propanediyl])* [26917-50-0]

## Pentaporphyrin I

See 21H,23H-Porphine-2,7,12,17-tetrapropanoic acid, 3-(carboxymethyl)-8,13,18-trimethyl- [28100-66-5]

## Pentaprismane

See *Hexacyclo*[4.4.0.0<sup>2,5</sup>.0<sup>3,9</sup>.0<sup>4,8</sup>.0<sup>7,10</sup>]decane [4572-17-